

Claims:

Claim 1, rewrite as Claim 1 (amended) as follows:

1. (amended) A method enabling the precise creation, fitting, and reproduction of objects comprising the steps of: 1) Defining a single 2-dimensional profile representation [representations] of an object 2) Defining 3-dimensional parametric representations of an object 3) Converting the profile and parametric data into an electronic format suitable for input to computer aided design and manufacturing (CAD/CAM) programs 4) Creating a virtual CAD model from the profile and parametric data 5) Calculating Numerical Control (NC) motion commands from the CAD model using CAM technology 6) Processing an object using Computer Numerical Controlled (CNC) machine 7) Transmitting data throughout the process, enabling these steps to be conducted at any combination of geographic locations.

Claim 2, rewrite as Claim 2 (amended) as follows:

2. (amended) The method of claim 1, wherein step 1 comprises a tracing technique to define the 2-dimensional profile [profiles].

Claim 3, rewrite as Claim 3 (amended) as follows:

3. (amended) The method of claim 1, wherein step 1 comprises a digitizing device to define the 2-dimensional profile [profiles].

Claim 4, rewrite as Claim 4 (amended) as follows:

4. (amended) The method of claim 1, wherein step 1 comprises an optical scanning process to define the 2-dimensional profile [profiles].

Claim 5, rewrite as Claim 5 (amended) as follows:

5. (amended) The method of claim 1, wherein step 1 comprises exposure to a reactive chemical media, to define the 2-dimensional profile [profiles].

Claim 6, rewrite as Claim 6 (amended) as follows:

6. (amended) The method of claim 1, wherein step 1 and step 2 comprise a digitizing device to define the 2-dimensional profile [profiles] and 3-dimensional parameters.

Claim 10, rewrite as Claim 10 (amended) as follows:

10. (amended) The method of claim 1 [14] wherein step 6 comprises a CNC controlled machine with a rotating tool.

Claim 11, rewrite as Claim 11 (amended) as follows:

11. (amended) The method of claim 1 [14] wherein step 6 comprises a CNC controlled machine with a cutting jet.

Claim 12, rewrite as Claim 12 (amended) as follows:

12. (amended) The method of claim 1 [14] wherein step 6 comprises a CNC controlled machine with a cutting wire.

Claim 13, rewrite as Claim 13 (amended) as follows:

13. (amended) The method of claim 1 [14] wherein step 6 comprises a CNC controlled machine with a cutting laser.

Claim 14, rewrite as Claim 14 (amended) as follows:

14. (amended) The method of claim 1 [14] wherein step 6 comprises a CNC controlled Rapid Prototyping machine capable of directly producing a part.

Claim 18, rewrite as Claim 18 (amended) as follows:

18. (amended) An apparatus enabling the precise creation, fitting, and reproduction of objects comprising: 1) a means of defining a 2-dimensional profile representation of an object's edges 2) a means of defining a 3-dimensional parametric representation of an object's topology 3) a means of converting the profile and parametric data into an electronic format suitable for input to computer aided design and manufacturing (CAD/CAM) programs 4) a means of creating a virtual CAD model from the profile and

parametric data 5) a means of calculating Numerical Control (NC) motion commands from the CAD model using CAM technology 6) a means of processing an object using Computer Numerical Controlled (CNC) manufacturing technology 7) a means of transmitting data throughout the process enabling theses steps to be conducted at any combination of geographic locations. [8])

Claim 19, cancel.

Claim 20, cancel.